SEQ LIST 886 WO (UBP8rp).txt SEQUENCE LISTING

<110> APPLIED RESEARCH SYSTEMS ARS HOLDING N.V. <120> NOVEL UBP8rp POLYPEPTIDES AND THEIR USE IN THE TREATMENT OF PSORIASIS <130> 886 WO <160> 79 <170> PatentIn version 3.1 <210> <211> 7260 <212> DNA 7260 <213> Homo sapiens <220> <221> exon <222> (851)..(1017) <223> exon 1 <220> <221> Intron (1018)..(1046) <222> <223> <220> <221> exon <222> (1047)..(1675) <223> exon 2 <222> <220> <221> Intron <222> (1676)..(1718) <223> <220> <221> exon <222> (1719)..(2371) <223> exon 3 <400> 1 tgttatgtag tcttttgttt ggtctctccc ttagcataac gatgtttgag atgatgccat 60 tcattcattt ttgttgctga gcagctgccg agtattgttg gaatcccagt ttattcattg 120 gtttctgtgt ctccagttga tagacatgtg gattcctcca gttagggttt gttattaatg 180 aagccactat aaataactgc ttacaagtgt ggacttacat ttttatttct tttggataaa 240 tacgtatttg tggaattgct gggccatgtg gtaatagatg ggtaactgta taagaaactg 300 ccataccact ttacaaattg gctgccacat tttttgcatt cctaccagca atatcagaca 360 ttcctatttt ttccatattc ttgccagtgt taagacttat catatgtctt tttaacttta 420 tetgetetag gtgatgtgtg atggtttete attgtggttt taaettgeae ttetttgatg 480 actagtattg tttgctatct tttcatgttc atctaagcga cttattacat atattttatg 540

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Trp	Leu	Gln 115	Gln	Lys	Arg	Gln	Glu 120		Gly	' Arg	Glu	Asp 125		Ser	Met	
Leu	Ala 130		Gly	Ser	Leu	Glu 135		Val	Leu	. Asp	Ser 140	Lys	Asp	Lys	Thr	
Gln 145		Ser	Asn	Gly	Glu 150		Asn	Glu	Lys	Cys 155	Glu	Thr	ГÀЗ	Glu	Lys 160	
Gly	Ala	Ile	Thr	Ala 165		Glu	Leu	ı Tyr	Thr 170	Met	. Met	Met	Asp	Lys 175	Asn	
Ile	Ser	Leu	Ile 180		Met	Asp	Ala	Glr 185	Arg	g Met	: Gln	Asp	190	Glr	Asp	

SEQ LIST 886 WO (UBP8rp).txt
Ser Cys Ile Leu His Ser Leu Ser Val Pro Glu Lys Ala Ile Ser Pro
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Gly Val Thr Ala Ser Trp Ile Glu Ala His Leu Pro Asp Asp Ser Ile 210 215 220

Asp Thr Trp Lys Lys Arg Gly Asn Val Glu Tyr Met Val Leu Leu Asp 225 230 235 240

Trp Phe Ser Ser Ala Lys Asp Leu Gln Ile Gly Thr Thr Leu Trp His 245 250 255

Leu Lys Asp Ala Leu Phe Lys Trp Glu Lys Gly Gly Tyr Lys Asn Trp 260 265 270

Phe Leu Cys Tyr Ser Gln Tyr Thr Thr Asn Ala Lys Val Thr Pro Pro 275 280 285

Pro Gln His Gln Asn Glu Glu Leu Ser Ile Ser Leu Asp Phe Thr Tyr 290 295 300

Pro Ser Leu Glu Glu Ser Ile Pro Ser Lys Pro Ala Ala Glu Met Pro 305 310 315 320

Pro Pro Pro Ile Lys Val Asp Glu Asp Ile Glu Leu Ile Ser Asp Gln 325

Ile Ser Asp Asn Asp Gln Asn Glu Arg Thr Gly Pro Leu Asn Ile Ser 340 345 350

Ile Pro Val Glu Ser Val Ala Ala Ser Lys Ser Asp Val Ser Pro Ile 355 360 365

Ile Gln Pro Val Pro Ser Ile Lys Asn Val Pro Gln Ile Asp His Thr 370 380

Lys Lys Leu Ala Val Lys Leu Pro Glu Glu His Ile Ile Lys Ser Glu 385 390 395 400

Ser Thr Asn His Glu Gln Gln Ser Pro Gln Asn Glu Lys Val Ile Pro 405 410 415

Asp Cys Ser Thr Lys Pro Val Val Ser Ser Pro Thr Leu Met Leu Thr 420 425 430

Asp Glu Glu Lys Ala His Ile His Ala Glu Thr Ala Leu Leu Met Glu 435 440 445

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Arg Ser

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Thr Lys Ser Tyr Val His Ser Ala Leu Lys Ile Phe Lys Thr Ala Glu

Glu Cys Arg Leu Asp Arg Asp Glu Glu Arg Ala Tyr Val Leu Tyr Met

Lys Tyr Val Thr Val Tyr Asn Leu Ile Lys Lys Arg Pro Asp Phe Lys 65 70 75 80

Gln Gln Gln Asp Tyr Phe His Ser Ile Leu Gly Pro Gly Asn Ile Lys

Lys Ala Val Glu Glu Ala Glu Arg Leu Ser Glu Ser Leu Lys Leu Arg 105

Tyr Glu Glu Ala Glu Val Arg Lys Lys Leu Glu Glu Lys Asp Arg Gln

Glu Glu Ala Gln Arg Leu Gln Gln Lys Arg Gln Glu Thr Gly Arg Glu

Asp Gly Gly Thr Leu Ala Lys Gly Ser Leu Glu Asn Val Leu Asp Ser 145

Lys Asp Lys Thr Gln Lys Ser Asn Gly Glu Lys Asn Glu Lys Cys Glu 165

Thr Lys Glu Lys Gly Ala Ile Thr Ala Lys Glu Leu Tyr Thr Met Met

SEQ LIST 886 WO (UBP8rp).txt
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Thr Asp Lys Asn Ile Ser Leu Ile Ile Met Asp Ala Arg Arg Met Gln 195 200 205

Asp Tyr Gln Asp Ser Cys Ile Leu His Ser Leu Ser Val Pro Glu Glu 210 215 220

Ala Ile Ser Pro Gly Val Thr Ala Ser Trp Ile Glu Ala His Leu Pro 225 230 235 240

Asp Asp Ser Lys Asp Thr Trp Lys Lys Arg Gly Asn Val Glu Tyr Val 245 250 255

Val Leu Leu Asp Trp Phe Ser Ser Ala Lys Asp Leu Gln Ile Gly Thr 260 265 270

Thr Leu Arg Ser Leu Lys Asp Ala Leu Phe Lys Trp Glu Ser Lys Thr 275 280 285

Val Leu Arg Asn Glu Pro Leu Val Leu Glu Gly Gly Tyr Glu Asn Trp 290 295 300

Leu Leu Cys Tyr Pro Gln Tyr Thr Thr Asn Ala Lys Val Thr Pro Pro 305 310 315

Pro Arg Arg Gln Asn Glu Glu Val Ser Ile Ser Leu Asp Phe Thr Tyr 325 330 335

Pro Ser Leu Glu Glu Ser Ile Pro Ser Lys Pro Ala Ala Gln Thr Pro 340 345 350

Pro Ala Ser Ile Glu Val Asp Glu Asn Ile Glu Leu Ile Ser Gly Gln 355 360 365

Asn Glu Arg Met Gly Pro Leu Asn Ile Ser Thr Pro Val Glu Pro Val 370 380

Ala Ala Ser Lys Ser Asp Val Ser Pro Ile Ile Gln Pro Val Pro Ser 385 390 395 400

Ile Lys Asn Val Pro Gln Ile Asp Arg Thr Lys Lys Pro Ala Val Lys 405 410 415

Leu Pro Glu Glu His Arg Ile Lys Ser Glu Ser Thr Asn His Glu Gln 420 425 430

Gln Ser Pro Gln Ser Gly Lys Val Ile Pro Asp Arg Ser Thr Lys Pro

SEQ LIST 886 WO (UBP8rp) .txt 435 Val Val Phe Ser Pro Thr Leu Met Leu Thr Asp Glu Glu Lys Ala Arg 455 Ile His Ala Glu Thr Ala Leu Leu Met Glu Lys Asn Lys Gln Glu Lys Glu Leu Arg Glu Arg Gln Gln Glu Gln Lys Glu Lys Leu Arg Lys Glu Glu Gln Glu Gln Lys Ala Lys Lys Lys Gln Glu Ala Glu Glu Asn Glu Ile Thr Glu Lys Gln Gln Lys Ala Lys Glu Glu Met Glu Lys Lys Glu Ser Glu Gln Ala Lys Lys Glu Asp Lys Glu Thr Ser Ala Lys Arg 530 Gly Lys Glu Ile Thr Gly Val Lys Arg Gln Ser Lys Ser Glu His Glu Thr Ser Asp Ala Lys Lys Ser Val Glu Asp Arg Gly Lys Arg Cys Pro 565 Thr Pro Glu Ile Gln Lys Lys Ser Thr Gly Asp Val Pro His Thr Ser Val Thr Gly Asp Ser Gly Ser Gly Lys Pro Phe Lys Ile Lys Gly Gln Pro Glu Ser Gly Ile Leu Arg Thr Gly Thr Phe Arg Glu Asp Thr Asp Asp Thr Glu Arg Asn Lys Ala Gln Arg Glu Pro Leu Thr Arg Ala Arg Ser Glu Glu Met Gly Arg Ile Val Pro Gly Leu Pro Ser Gly Trp Ala 650 Lys Phe Leu Asp Pro Ile Thr Gly Thr Phe Arg Tyr Tyr His Ser Pro 660

Thr Asn Thr Val His Met Tyr Pro Pro Glu Met Ala Pro Ser Ser Ala

Pro Pro Ser Thr Pro Pro Thr His Lys Ala Lys Pro Gln Ile Pro Ala

690		SEQ L	IST 886 V	WO (UBP8: 700	p).txt	
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Thr Pro Thr	Val Asn Arg 740	Glu Asn	Lys Pro 745	Thr Cys	Tyr Pro 750	Lys Ala
Glu Ile Ser 755	Arg Leu Ser	Ala Ser 760	Gln Ile	Arg Asn	Leu Asn 765	Pro Val
Phe Gly Gly 770	Ser Gly Pro	Ala Leu 775	Thr Gly	Leu Arg 780	Asn Leu	Gly Asn
Thr Cys Tyr 785	Met Asn Ser 790	: Ile Leu	Gln Cys	Leu Cys 795	Asn Ala	Pro His 800
Leu Ala Asp	Tyr Phe Ass 805	n Arg Asn	Cys Tyr 810	Gln Asp	Asp Ile	Asn Arg 815
Ser Asn Leu	Leu Gly His 820	s Lys Gly	Glu Val 825	Ala Glu	Glu Phe 830	Gly Ile
Ile Met Lys 835	Ala Leu Tr	p Thr Gly 840	Gln Tyr	Arg Tyr	Ile Ser 845	Pro Lys
Asp Phe Lys 850	Ile Thr Il	e Gly Lys 855	: Ile Asn	Asp Gln 860	Phe Ala	Gly Tyr
Ser Gln Gln 865	Asp Ser Gl 87		ı Leu Leu	Phe Leu 875	Met Asp	Gly Leu 880
His Glu Asp	Leu Asn Ly 885	s Ala Asp	Asn Arg 890	lys Arg	Tyr Lys	Glu Glu 895
Asn Asn Asp	His Leu As 900	p Asp Phe	e Lys Ala 905	a Ala Glu	His Ala 910	Trp Gln
Lys His Lys 915		sn Glu Se: 92	r Ile Ile O	e Val Ala	Leu Phe 925	e Gln Gly
Gln Phe Lys	S.Ser Thr Va	al Gln Cy	s Leu Thi	c Cys His	Lys Ly:	s Ser Arg

Thr Phe Glu Ala Phe Met Tyr Leu Ser Leu Pro Leu Ala Ser Thr Ser

SEQ LIST 886 WO (UBP8rp).txt 955 950 945

Lys Cys Thr Leu Gln Asp Cys Leu Arg Leu Phe Ser Lys Glu Glu Lys 965

Leu Thr Asp Asn Asn Arg Phe Tyr Cys Ser His Cys Arg Ala Arg Arg

Asp Ser Leu Lys Lys Ile Glu Ile Trp Lys Leu Pro Pro Val Leu Leu

Val His Leu Lys Arg Phe Ser Tyr Asp Gly Arg Trp Lys Gln Lys 1010 1015

Leu Gln Thr Ser Val Asp Phe Pro Leu Glu Asn Leu Asp Leu Ser 1035 1030 1025

Gln Tyr Val Ile Gly Pro Lys Asn Asn Leu Lys Lys Tyr Asn Leu 1045 1040

Phe Ser Val Ser Asn His Tyr Gly Gly Leu Asp Gly Gly His Tyr 1060

Thr Ala Tyr Cys Lys Asn Ala Ala Arg Gln Arg Trp Phe Lys Phe 1075 1070

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aag : Lys :	aaa aaa acc cat ccc cat c Lys Lys Thr His Pro His G 20	aa aaa gtg Sln Lys Val 25	CIA TAS GIA 1	cat aaa cag Tyr Lys Gln 30	96
aca Thr	ctt ctc aga gga aga cat t Leu Leu Arg Gly Arg His L 35	ta cgt ggc Leu Arg Gly 10	caa gaa aca t Gln Glu Thr 1 45	cat gaa aaa Tyr Glu Lys	144
aag	ctc aca cac gta tat gaa a	aca cct gat	ttc aag caa	cag cag gat	192

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Lys		Thi	Hi.	s V	al 1	ľyr (	SI Glu 55	EQ Li Thr	IST : Pro	886 N Asp	Phe	UBP8: Lys 60	rp). Gln	txt Gln	Gln	Asp	
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65 gaa Glu	act Thr	gaa Gl	a cg u Ar	g I	+~	+c+	gaa Glu	agc Ser	ctt Leu	aaa Lys 90	cta	aga Arg	tat Tyr	gaa Glu	gaa Glu 95	gtt Val	288
gaa Glu	ato Ile	tg Tr	g aa p Ly 10	a a		ctt Leu	gag Glu	gaa Glu	aag Lys 105	gac Asp	agg Arg	cag Gln	eja aaa	gaa Glu 110	gca Ala	cag Gln	336
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caa Gln 145	Ly	g ag s Se	c aa r As	at (	ggt Gly	gaa Glu 150	aag Lys	aat Asn	gaa Glu	aaa Lys	tgt Cys 155	GLU	acc Thr	aaa Lys	gag Glu	aaa Lys 160	480
gga Gly	gc, Al	a at a II	c a e T	hr.	gca Ala 165	aag Lys	gaa Glu	cta Leu	tac Tyr	aca Thr 170	Mec	atg Met	atg Met	gat Asp	aaa Lys 175	aac Asn	528
ato Ile	ag Se	c ti r Le	eu I	tt le 80	ata Ile	atg Met	cat His	gct Ala	caa Gln 185	Arg	atg Met	cag Gln	tat Tyr	tat Tyr 190	GLI	g gat n Asp	576
tco Se:	c tg	s I.	tt t le L 95	ta eu	cat His	tct Ser	ctc Leu	agt Ser 200	. Val	. cct Pro	gaa Glu	aaa Lys	gco Ala 205	TTE	agt Sei	cca Pro	624
gga Gl	a gt y Va 21	1 T	ct g hr A	ct la	agc Ser	tgg Trp	att Ile 215	GIU	gca Ala	cac His	cto Lei	c cca Pro 220	) AS	gat Asp	tct Se	t ata r Ile	672
ga Asj 22	p Tì	a t r T	gg a rp I	ag .ys	aag Lys	agg Arg 230	i GT?	, aat , Asr	gto Val	r GTI	tat Tyr 23	Me	g gta t Va	a ctt l Lei	ct' Le	t gac u Asp 240	720
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ct Le	g a	aa g ys A	sp 1	gca Ala 260	Let	tto Phe	c aaq e Lys	g tgo	g gaa o Gli 26	п тА	g gg s Gl	a gg y Gl	c ta y Ty	t aaa r Ly 27	5 A3	c tgg n Trp	816
t t Ph	c t e P	he C	gc Sys '	tat Fyr	tco Sei	c cac	g ta n Ty:	t ac r Th	r Th	a aa r As	t gc n Al	t aa a Ly	g gt s Va 28	T 111	t cc r Pr	a ccc o Pro	864
CC Pr	o G	aa d ln H 90	ac lis	cag Gln	aat Ası	t ga n Gl	a ga u Gl 29	u ье	g tc u Se	t at r Il	c tc e Se	a tt r Le 30	u As	t tt p Ph	t ac e Th	t tat r Tyr	912
co	cc t	ca t	tg	gaa	gaa	a tc	a at	t cc	t tc	t aa	a cc	t go	t gc	c ga	g at	g cca	960

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Pro Se	er I	ieu	Glu	Glu	Ser	S: Ile	EQ L Pro	IST Ser	886 l Lys	$\mathtt{Pro}$	JBP8: Ala	rp). Ala	txt Glu	Met	Pro 320	
305					310					313						1008
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aaa a Lys L 385	aaa Sys	ctg Leu	gca Ala	gtc Val	aaa Lys 390	ttg Leu	cct Pro	gaa Glu	gag Glu	cat His 395	ata Ile	atc Ile	aaa Lys	tct Ser	gaa Glu 400	1200
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gat t Asp (	tgt Cys	tcc Ser	gcc Ala	Lys	cca Pro	gta Val	gtt Val	tcc Ser 425	Ser	cca Pro	act Thr	cto Leu	atg Met 430	пес	aca Thr	1296
gat ( Asp (	gaa Glu	gaa Glu 435	ı Lys	gct Ala	cat His	att Ile	cat His	Ala	gaa Glu	act Thr	gct Ala	ctt Leu 445	i neu	Pict	g gag : Glu	1344
Lys 2	aac Asn 450	Lys	a caa s Glr	a gaa n Glu	a aaa 1 Lys	gaa Glu 45!	ı Per	caq n Glr	g gaa n Glu	aga Arg	caç Glr 460	I GTI	a ggg n Gly	aaa Lys	a cag . s Gln	1392
aaa Lys 465	gaa Glu	act Th	t gaq r Gli	g gaq ı Gl	g gga u Gl <u>y</u> 470	y Ar	a aca g Thi	a cga c Ar	a gca g Ala	a aaa a Lys 475	9 De1	c caa	a aaa n Lys	gaa Gli	a aca u Thr 480	1440
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gaga	aaga	aag	aac	gtga	aca	ggcc	aaga	aa g	agga	taaa	g aa	atct	cagc	aaa	gaagggc	1555
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<400		53								- 01	T -	T-		<u>. 1</u> 1	e Tur	
Met	Me	t Ar	g Al	a Hi	is Me	t Ph	ie va	т т.	/r ьу	5 GI	u ne	נת הי	'S GT	15	le Tyr	

SEQ LIST 886 WO (UBP8rp).txt

Lys Lys Lys Thr His Pro His Gln Lys Val Gly Lys Gly Tyr Lys Gln 20 25

Thr Leu Leu Arg Gly Arg His Leu Arg Gly Gln Glu Thr Tyr Glu Lys

Lys Leu Thr His Val Tyr Glu Thr Pro Asp Phe Lys Gln Gln Gln Asp

Cys Phe Arg Ser Ile Leu Gly Pro Ala Asn Ile Lys Lys Ala Thr Gly

Glu Thr Glu Arg Leu Ser Glu Ser Leu Lys Leu Arg Tyr Glu Glu Val

Glu Ile Trp Lys Lys Leu Glu Glu Lys Asp Arg Gln Gly Glu Ala Gln 100

Trp Leu Gln Gln Lys Arg Gln Glu Thr Gly Arg Glu Asp Gly Ser Thr

Leu Ala Lys Asp Ser Leu Glu Ile Val Leu Asp Ser Lys Asp Lys Thr

Gln Lys Ser Asn Gly Glu Lys Asn Glu Lys Cys Glu Thr Lys Glu Lys

Gly Ala Ile Thr Ala Lys Glu Leu Tyr Thr Met Met Asp Lys Asn

Ile Ser Leu Ile Ile Met His Ala Gln Arg Met Gln Tyr Tyr Gln Asp

Ser Cys Ile Leu His Ser Leu Ser Val Pro Glu Lys Ala Ile Ser Pro 200

Gly Val Thr Ala Ser Trp Ile Glu Ala His Leu Pro Asp Asp Ser Ile

Asp Thr Trp Lys Lys Arg Gly Asn Val Glu Tyr Met Val Leu Leu Asp 235

Trp Phe Ser Ser Ala Lys Asp Leu Gln Ile Gly Thr Thr Leu Trp His

Leu Lys Asp Ala Leu Phe Lys Trp Glu Lys Gly Gly Tyr Lys Asn Trp 260

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#### SEQ LIST 886 WO (UBP8rp).txt

Phe Phe Cys Tyr Ser Gln Tyr Thr Thr Asn Ala Lys Val Thr Pro Pro

Pro Gln His Gln Asn Glu Glu Leu Ser Ile Ser Leu Asp Phe Thr Tyr 290

Pro Ser Leu Glu Glu Ser Ile Pro Ser Lys Pro Ala Ala Glu Met Pro

Pro Pro Pro Ile Glu Val Asp Glu Asp Ile Glu Leu Ile Ser Asp Gln

Ile Ser Asp Asn Asp Gln Asn Glu Arg Thr Gly Pro Leu Asn Ile Ser 340

Ile Pro Val Glu Ser Val Ala Ala Ser Lys Ser Asp Val Ser Pro Ile 360

Ile Gln Pro Val Pro Ser Ile Lys Asn Val Pro Gln Ile Asp His Thr 375 370

Lys Lys Leu Ala Val Lys Leu Pro Glu Glu His Ile Ile Lys Ser Glu

Ser Thr Asn His Glu Gln Gln Ser Pro Gln Asn Glu Lys Val Ile Pro 410

Asp Cys Ser Ala Lys Pro Val Val Ser Ser Pro Thr Leu Met Leu Thr 425

Asp Glu Glu Lys Ala His Ile His Ala Glu Thr Ala Leu Leu Met Glu 435

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Arg Ser Cys Arg Lys

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cgtggccaag aaacatatga aaaaaagctc acacacgtat atgaaacgtg actgtttata	180
atcctatcca aaaaagacct gatttcaagc aacagcagga ttgcttccgt tcaatacttg	240
gacetgattt caageaacag caggattget teegtteaat aettggaeet geaaacatea	300
aaaaagccac tggagaaact gaacgactct ctgaaagcct taaactaaga tatgaagaag	360
ttgaaatctg gaaaaaactt gaggaaaagg acaggcaggg ggaagcacag tggctacaac	420
aaaaaaggca ggaaacagga agagaggatg gcagcacgtt ggctaaagat tctttggaga	480
ttgtattgga ttccaaagac aaaacccaaa agagcaatgg tgaaaagaat gaaaaatgtg	540
agaccaaaga gaaaggagca atcacagcaa aggaactata cacaatgatg atggataaaa	600
acatcagett gattataatg catgeteaaa gaatgeagta ttateaggat teetgtattt	660
tacattetet cagtgtteet gaaaaageea teagteeagg agteaetget agetggattg	720
aagcacacct cccagatgat tctatagata catggaagaa gagggggaat gtggagtata	780
tggtacttet tgactggttt agttetgeaa aagatttaca gattggaaca acactetgge	840
atctgaaaga tgcacttttc aagtgggaaa agggaggcta taaaaactgg ttcttttgct	900
attcccagta tacaacaaat gctaaggtca ctccaccccc acaacaccag aatgaagagt	960
tgtctatctc attggatttt acttatccct cattggaaga atcaattcct tctaaacctg	1020
ctgccgagat gccacctcca cctatagaag tggatgaaga catagaattg ataagtgatc	1080
aaataagtga taatgatcaa aatgagagga caggaccact gaatatatca attccagttg	1140
aatcagttgc tgcttctaaa tctgatgttt cacccatcat tcagccagtg cctagcataa	1200
agaatgttcc acagattgat catactaaaa aactggcagt caaattgcct gaagagcata	1260
taatcaaatc tgaaagtaca aatcatgagc aacagtctcc tcagaatgaa aaagttattc	1320
ctgattgttc cgccaagcca gtagtttcct ctccaactct catgttaaca gatgaagaaa	1380
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ttcaggaaag acagcaaggg aaacagaaag aaactgagga gggaagaaca cgagcaaaaa	1500
gccaaaaaga aacaagaagc tgcagaaaat gaaattacac agaagcaaca aaaagcaaaa	1560
gaagaaatgg agaagaaaga acgtgaacag gccaagaaag aggataaaga aatctcagca	1620
aagaagggca aagaaataac aagagtaaaa agacaaagta aaagtgatca tgaaacctct	1680
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aag aaa aaa acc cat ccc cat caa aaa gtg ggc aaa gga tat aaa cag Lys Lys Lys Thr His Pro His Gln Lys Val Gly Lys Gly Tyr Lys Gln 20 25 30	96
aca ctt ctc aga gga aga cat tta cgt ggc caa gaa aca tat gaa aaa Thr Leu Leu Arg Gly Arg His Leu Arg Gly Gln Glu Thr Tyr Glu Lys 35 40 45	144
aag ctc aca cac gta tat gaa aca cct gat ttc aag caa cag cag gat Lys Leu Thr His Val Tyr Glu Thr Pro Asp Phe Lys Gln Gln Gln Asp 50 55	192
tgc ttc cgt tca ata ctt gga cct gca aac atc aaa aaa gcc act gga Cys Phe Arg Ser Ile Leu Gly Pro Ala Asn Ile Lys Lys Ala Thr Gly 65 70 75 80	240
gaa act gaa cga ctc tct gaa agc ctt aaa cta aga tat gaa gaa gtt Glu Thr Glu Arg Leu Ser Glu Ser Leu Lys Leu Arg Tyr Glu Glu Val 85 90	288
gaa atc tgg aaa aaa ctt gag gaa aag gac agg cag ggg gaa gca cag Glu Ile Trp Lys Lys Leu Glu Glu Lys Asp Arg Gln Gly Glu Ala Gln 100 105 110	336
tgg cta caa caa aaa agg cag gaa aca gga aga gag gat ggc agc acg Trp Leu Gln Gln Lys Arg Gln Glu Thr Gly Arg Glu Asp Gly Ser Thr 115 120 125	384
ttg gct aaa gat tct ttg gag att gta ttg gat tcc aaa gac aaa acc Leu Ala Lys Asp Ser Leu Glu Ile Val Leu Asp Ser Lys Asp Lys Thr 130 135	432
caa aag agc aat ggt gaa aag aat gaa aaa tgt gag acc aaa gag aaa Gln Lys Ser Asn Gly Glu Lys Asn Glu Lys Cys Glu Thr Lys Glu Lys 145 150 160	480
gga gca atc aca gca aag gaa cta tac aca atg atg atg gat aaa aac Gly Ala Ile Thr Ala Lys Glu Leu Tyr Thr Met Met Met Asp Lys Asn 165 170 175	528
atc agc ttg att ata atg cat gct caa aga atg cag tat tat cag gat Ile Ser Leu Ile Ile Met His Ala Gln Arg Met Gln Tyr Tyr Gln Asp 180 185 190	576
tcc tgt att tta cat tct ctc agt gtt cct gaa aaa gcc atc agt cca	624

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SEQ LIST 886 WO (UBP8rp).txt Ser Cys Ile Leu His Ser Leu Ser Val Pro Glu Lys Ala Ile Ser Pro 195 200 205	
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gat aca tgg aag aag agg ggg aat gtg gag tat atg gta ctt ctt gac Asp Thr Trp Lys Lys Arg Gly Asn Val Glu Tyr Met Val Leu Leu Asp 225 230 235	720
tgg ttt agt tct gca aaa gat tta cag att gga aca aca ctc tgg cat Trp Phe Ser Ser Ala Lys Asp Leu Gln Ile Gly Thr Thr Leu Trp His 245 250 255	768
ctg aaa gat gca ctt ttc aag tgg gaa aag tct cct cag aat gaa aag Leu Lys Asp Ala Leu Phe Lys Trp Glu Lys Ser Pro Gln Asn Glu Lys 260 265 270	a 816 s
gtt att cct gat tgt tcc gcc aag cca gta gtt tcc tct cca act ctc Val Ile Pro Asp Cys Ser Ala Lys Pro Val Val Ser Ser Pro Thr Let 275 280 285	e 864 u
atg tta aca gat gaa gaa aag gct cat att cat gca gaa act gct ct Met Leu Thr Asp Glu Glu Lys Ala His Ile His Ala Glu Thr Ala Le 290 295 300	t 912 u
cta atg gag aaa aac aaa caa gaa aaa gaa ctt cag gaa aga cag ca Leu Met Glu Lys Asn Lys Gln Glu Lys Glu Leu Gln Glu Arg Gln Gl 305 310 315	
ggg aaa cag aaa gaa act gag gag gga aga aca cga gca aaa agc ca Gly Lys Gln Lys Glu Thr Glu Glu Gly Arg Thr Arg Ala Lys Ser Gl 325 330 335	a 1008 .n
aaa gaa aca aga agc tgc aga aaa tgaaattaca cagaagcaac aaaaagca Lys Glu Thr Arg Ser Cys Arg Lys 340	naa 1062
agaagaaatg gagaagaaag aacgtgaaca ggccaagaaa gaggataaag aaatcto	cagc 1122
aaagaagggc aaagaaataa caagagtaaa aagacaaagt aaaagtgatc atgaaa	
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Lys Lys Lys Thr His Pro His Gln Lys Val Gly Lys Gly Tyr Lys G 20 25 30	in .

Thr Leu Leu Arg Gly Arg His Leu Arg Gly Gln Glu Thr Tyr Glu Lys 35 40 45

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#### SEQ LIST 886 WO (UBP8rp) .txt

Lys I	Leu 50	Thr	His	Val	Tyr	Glu 55	Thr	Pro	Asp	Phe	Lys 60	Gln	Gln	Gln	Asp
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- Cys Phe Arg Ser Ile Leu Gly Pro Ala Asn Ile Lys Lys Ala Thr Gly 65 70 75
- Glu Thr Glu Arg Leu Ser Glu Ser Leu Lys Leu Arg Tyr Glu Glu Val 85 90 95
- Glu Ile Trp Lys Lys Leu Glu Glu Lys Asp Arg Gln Gly Glu Ala Gln 100 105
- Trp Leu Gln Gln Lys Arg Gln Glu Thr Gly Arg Glu Asp Gly Ser Thr 115 120 125
- Leu Ala Lys Asp Ser Leu Glu Ile Val Leu Asp Ser Lys Asp Lys Thr 130 135
- Gln Lys Ser Asn Gly Glu Lys Asn Glu Lys Cys Glu Thr Lys Glu Lys 145 150 160
- Gly Ala Ile Thr Ala Lys Glu Leu Tyr Thr Met Met Met Asp Lys Asn 165
- Ile Ser Leu Ile Ile Met His Ala Gln Arg Met Gln Tyr Tyr Gln Asp 180 185 190
- Ser Cys Ile Leu His Ser Leu Ser Val Pro Glu Lys Ala Ile Ser Pro 195 200 205
- Gly Val Thr Ala Ser Trp Ile Glu Ala His Leu Pro Asp Asp Ser Ile 210 215 220
- Asp Thr Trp Lys Lys Arg Gly Asn Val Glu Tyr Met Val Leu Leu Asp 225 230 230
- Trp Phe Ser Ser Ala Lys Asp Leu Gln Ile Gly Thr Thr Leu Trp His 245
- Leu Lys Asp Ala Leu Phe Lys Trp Glu Lys Ser Pro Gln Asn Glu Lys 260 265 270
- Val Ile Pro Asp Cys Ser Ala Lys Pro Val Val Ser Ser Pro Thr Leu 275 280 285
- Met Leu Thr Asp Glu Glu Lys Ala His Ile His Ala Glu Thr Ala Leu 290 295 300

### SEQ LIST 886 WO (UBP8rp).txt

Leu Met Glu Lys Asn Lys Gln Glu Lys Glu Leu Gln Glu Arg Gln Gln

Gly Lys Gln Lys Glu Thr Glu Glu Gly Arg Thr Arg Ala Lys Ser Gln 330 325

Lys Glu Thr Arg Ser Cys Arg Lys 340

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18

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20

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WO 2005/024011 36/37	PC1/EP2004/0520
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